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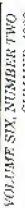
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The Hacker Quarterly







#### SECURITY BULLETIN

From: Corporate Security

Pasteribution

Date: September 2), 1988

Subject Soviet Acquisition of Western Technology

aubject accachment. order to more fully understand and subsequently combat the problem, read the weatern technology and equipment through both legal and illegal means. In Seviet Calca and jus Barrow Face Allies in obtaining militarity xignificant There has been a presentable incomesse on the past few years by the

Security office (Mail Stop AUZ-18). distribution within your group and forward this information to Corporate Please indicate the number of modicional rapids accorded for further

## Soviet Acquisition of Militarily Significant Western Technology: An Update



STREET OF THE OFFICER SUPERIOR AND SEE THE STREET, MAINTE, COMMERCE ARRANGEMENT, MAILTON, STREET, STREET, STREET

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## Remember...

have with 2600? Hoffman? What relationship did he Why should we remember Abbie

sent form were it not for the inspiradoubtful 2600 would exist in its prebon TAP offered. technology through hacker eyes. It's was the first publication to look at of the Yippies, and the founder of YIPL, which turned into TAP, TAP Abbie was, of murse, the founder

in his attack on the status quo. He known as Society. He was releatless the ultimate computer system much more direct. He stood up to computers. Abbie, of course, was whenever we play with phases and what a fot of us unwittingly do we know the subject interested him. order. No, he didn't go around purposes, a hacker of the highest Abble hacked authority, which is breaking into computers, although Hoffman was, for all intents and But apart from that, Abbie

> The River in upstate New York. environmental group called Save name of Barry Freed, togiting an end. And even under a disguise, his closest friends right up to the a charge he vehemently desired to Abbie accomplished a tot ender the after being accused of dealing drugs, ed so many times that nobedy could fought the Vicinam War, got arrestpissing off Richard Nixon to run end. really keep track, and wound up He became a fugitive from the law

something to be provided one else in their entire history. There's tion on Abbie Hoffman than on anythat the JIM gathered more informaoutsmaring the 1.81. It's reported Abbie gained a reputation for

point out the flows. nient and he made people uncomfortable because he wasn't diraid to some. His prosence was incurve-Hoffman was thought of as a pest by Like a compater backer. Abbie

2600 Magazine (болиныей оп јецее 45)

## A GUIDE TO

#### Introduction by Wolence

unlamifarity. In all solvetry, PRIMOS is a very user-friendly operating system and as eral hacker community has avoided due to the several operating systems that the gendealing with Prime computers (both minis tant to the aspiring PRIMICS hacker. adiction I will cover everything that is imporsuch, demands respect, in this spries of ating system, PRIMOS, PRIMOS is one of and superminis) and their respective oper-I als is the tree in a series of suides

ed. All PRIMOS output samples were taken from a Revision 22.0.0 PRIMOS system. grams included herein have been fully testonly in passing as they are extremely uncommon, in addition, all sample proaddress pre-revision 19.00 systems, but through 22 xx of PRIMOS. I do occasionally sive ourhands use, and all the information ascurate in regards to Sevisions 19.xx provided herein is guaranteed to be 100% This series is largely based on exten-

Blernative. to create a series that is an acceptable the hacker community. I have slied my base cocurrentation is generally unavailable to PRIMOS documentation, but since such equal or even come close to the actual ment (grin). All in all, this spries does not manner, but not like a typical AT&T docu-I chose to write this series in a recrimical

abuse. This seems to be the rage these vague in some areas due to potential Computer, Inc.'s trade secrets. days and him sorry if that upsets you, but have no wish to compremise any of Prime I have opted to remain purposefully

#### Conventions

PRIMOS reference manuals and online help facilities. Conventions follow: will follow the conventions put forth in the All command references in this series

entered literally. All command abbreviations mand name. will be listed following the actual tott command words or keywords and are to be WORDS-IN-UPPERCASE identify dom-

Words in-lowercase identity arguments.

fou substance the appropriate numerical or

and/or keywords. At least one must be Braces | } indicate a choice of arguments

ment professors appoint Brackets [ ] indicate that the word or argu-

and must be entered frefally. Hyphens - indicate a command line option

Ellipses ... indicate that the preceding argument may be repeated Parentheses ( ) must be entered transity

one or more keywords and/or arguments can be given and that a list of options for options: The word 'options' indicates that separate the elements of a pathorner the command follow. Angle Brackets < > are used iterally to

lawerease characters. PRIMOS cupic will examples will be completely displayed in able. All text typed by the user in these indented so that they will be easily identifithen be easy to identify All examples throughout this text will be

### System Identification

Enthes is astophishiply large Prime 9550's (high-end minist, On the 4150's (a mid-range system) and the hage peralicals and governments (the two man there are many models of Printers and consystem for their extensive ling of mint and tion clasters. As you can see, the army of high end of this you will also find Prime 750's (also ancient, but sall in use) to Prime you will fied Prime 250's (arcient) and that best suit their individual needs. Thusly, Prime owner dasses) purchase the models longer is that the case, however, Newadays the Prime medel 750 was all the rage. No supermini computers. A lew years back MCXL's (super-mini's) and Prime workster PRIMOS is Prime's uniform operating

Interdata or Rendad networks and Japan's and 18.xx systems, are on toroign packet switched networks (PSN's) (like on Brazil's About the only places you will find \$7.xx revision 27.xx, 18.xx, or 19.xx system and greater but you will, on occasion, find a sions of PRIMOS that they run. About all that you will see these days are Rev. 20.4x Equally large in number are the revi-

## PRIMOS

from New's 20.xx through 22 xx systems here (and in most-other countries). operating in the United States. As said preyously, however, you will most likely find scant lew 18.0x and 19 xx systems are still Venus-PANTII or DDX-PACED networks). A

this you need a decent abstract models operating system model looks like. To do with users you need to have a good working grasp of what the standard PHIMOS To understand how PRIMOS intortages

PAIMENET radename. PRIMENET-equipped system, display their nathing to your someon or, in the case of a nected to. They either sit there, schoing contacted is not very difficult. Primes generally behave in one of two ways when eenidentifying a Prime micr or supermini

tive 'ER!' prompt, then it is a Prime. Here is upon connecting. Type a few random an example: messages followed with the rather distinc-With II it responds with a battery of error take note of what the host system responds keystrokes followed by a RETURN and In the lamber case, by this simple test

invalid command "ASDF" (precesseemmand)

Login please.

and their system nedecisma upon cognicol as they display their revision of PRIMOS jamp agits out and yell "Ney! I'm a Prime" systems that are equipped with PRIMENE) generally lacks inter-system communica-Any Prime that just sits there weiging for you to legin is not running PRIMENET and Here is an example. hose capability. On the other hand, those

### PRIMENET 21.0,3 VOID

theation Like I said, it's a rather trivial task That's all there is to Paine system iden

#### and System Penetration Front-end Security

rity itself is required. that question a little discourse on the secudo we bypass the front-end security and get in? Well, before I can bogin to answor Now that we have located a Paine, how

The povernment has granted Primes a

hat, I'll discuss internal security more fully remove all delauns. Not very nice, ph? On sort of fluctuates' about External security as C2 systems. However, that C2 rating B00(00) the other hand, internal security is not so should really be a bit higher, as Prime What that means, WAXon are also classed C2 security rating. To give you an idea of Computer, Inc. tells their administrators to

mand line (the prompting and IrO sub sys terns). The only commend which you can enter at this level of operation is the LOGIN command level in that it utilizes the com-The front door is similar to PRIMOS

and as such, demands respect." friendly operating system "PRIMOS is a very user-

way to get into a Prime computer, as its MOS: files (volumes I-III), there is no easy command. There is no 'whe' command EWI Jay pointed out in his "Hacking PTXIavailable to you prior to system login. As Transport & Curbos account

is a virtue, you know) use easy-to remember gasswords. But Prime users are people and people like to these default accounts after the system has they tell their administrators to remove on the inside (grin). This option is default able, unless, of course, you know someone LOGIN command in greater detail (patience that is good for us. Also, never target then been installed. Not a few administrators tail their factories. As I have said, however, inc. to install so many default accounts at accounts. How nice of Prime Computer, actors I go any turner, let me explain the to remove these defaults, however, and At this point only one option ties avail-

lirst for User ID and then your password press RETURN. You will ston be requested Hote's yet another exactpie: Typically you will type 'LOGIN' and

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# HACKING AROUND ON

invalid user id or password; please Password? Anot echoods User id? user Login please. try again.

the TELENET X 25 network): login. Here's another example (assuming will disconnect you after the first incornect other hand is more of a bitch to hack as it per connect. A PRIMENET system on the threshold, so you can make many attempts system generally has a high gad login have another go at it. A non-PRIMENET are probably still connected, so you can PRIMOS ridnit eaha your password to you. you are hadding a PRIMENET system from PRIMENET Prime. After this bad easy you The above example is from a non-Well, that sure didn't work. Notice how

PRIMENET 20.0.0 VOID 214 XXX CONNECTED login user

invalid user id or password; please Password? pat echaed> Try again.

#### 214 XXX DISCONNECTED 00:00 00:00:00:00 9 7

and pressing RETURN to start logging in On all Primes you can nest the "LOGIN" line, as is illustrated in the following examcommand and your User ID in the same for you are accustomed to typing in LOGIN system centification from my examples. So priate one (grin). I will continue to mask all from its actual nodename to a more approbanging on my system's front door (grin). I Wish all you eager #MIMOS hackers to start NUA (Notwork User Address), for I do not masked the last three digits of the system's ad of X's in the above example. I have note is in order here reparding all the mynger with a PRIMENET system. A minor have also edited the system's nedename ins you can see, one chance is all you

Password? knot echoeds TORIN USER

> do a full LOGIN nest, as such: And on a very few other Primes you can login user password

shoulder surfing (grin). about, as they might decide to practice capability when other hackers are surking You night not wish to use left nesting

si Libradicae, de se os pariajas astrealad) herald from PRIMOS: valid, you will receive the following login If a User (C/password combination

USER (user 67) logged in Sunday, 22 Jan 89 16:15:40.

Copyright (c) 1988, Prime Computer Welcome to PRIMOS version 21.0.3

Serial #serial number (company

Last login Wednesday, 18 Jan 89 20:07:40 BHI-B

owns the Finne compater site. and eampary name of the company that be replaced by the actual serial number 'serial number' and 'company name' will

such are generally different from and aging, old-password databasing into Inc. \*LOGINSENTRY\* is an excellent pack. account or system. A popular commercial these attempts fail, you can either keep by then by the system's noderenne, it both of oustom written software to handle this another, as they run both commercial and other trauble is ratiote user passwords now, and that is login republes. Troubles? cover about the "LOGIN" command right agni so good lack when you go up against front and security package is "LOGINSEN can give it up and move on to the next ing passwords (brute-loces hadding) or you by the User ID and, if that docum't work account cannot be logged into. Bah. The but it doesn't have an initial AFTAOH point the account you legin to exists and is valid, If supports remain passwords, password IRY from Bramalea Solovare Systems When you came upon a remote password, This is definitely no tun. The prompt for home directory). This is no fue, since this in other words, you don't seem to have a You betcha. The first trouble occurs when Just one more small thing? need to

# A PRIME SYSTEM

lind that work occasionally, (i.e., more than accounts along with some other accounts a Here is a listing of default PRIMOS

parts of the User D. NOTE: The 's' and 't' symbols, are not

はなりでする Password

Comments:

\* ADMIN ADMIN, ADMINISTRATOR

CENTRO CENTRO Administrator account

External command UFD maintenance PEMO DEMO, GUEST

Doma account \* DEG 256

Chagnostic account \* FAST YAN

File Access Manager

+ GAMES - GAMES

· GUEST GUEST, VISITOR Games account (only on schools)

Denie Bocount HELP

Help subsystem account

information account + 12m0 NFO

# 50 U 500

Job Control Language account: \* 08 UB, LIBRARY

+ 医田耳氏系统一区田丁基系统 Library maintenshoe account

Network controller account

\* NETPRIVANETPRIV

+ 光田製物 Network priv account KENS

Network nepriv account + MONETPRIV NONETPRIV News secount

+ PRIME Prime account PHILE

での可能用

でのことの

Prime accoun PRIMOS PRIMOS

Prime account + PRIMOS CL - PRIMOS CL

Prime account

User registration account \* DECISE AEGIST.

Remote Job Entry account + STUDENT: STUDENT, SCHOOL

> Student account (only on schools) Administrator 8000uni MOVSAS SYSADM, ADMIN

Administrator account GTE Telenet account 

TSYSTEM.

SYSTEM

Test secount ESS

Tool maintenance account +10019 STOOLS

cended these accounts with a 1 symbol. changes them or completely removes them accounts and the administrator, after schip work; as they are initial system setup Petro Computer, Inc. advises that I have Several of these combinations, and not

often then not they have good povinges (With exception to GUESS) ones that I find work most commonly. More The accounts marked by a 32 are the

work so many times that I just had to dolars? Sure it is but I have found it to assume it was a delault of some sort Notice SYSADM: Say, Ison that a UNIX

(LOD TJJ Issue 2) that if works sometimes work, but Carrier Culprit states in the 200 Hacker's Technical Journal file on PROVOS As for TELENET I have yet to see it

case; PRIMOS interprets it in opper case. Adhaugh your lyping appears in lower as "SYSTEM" PRIMOS maps at command ing at times. User ID "system" is the same LOGIN subsystem is not case dependent No big deal. Just thought I'd montain it and appropriate case offer to processing This is good, as asse dependency nots bar-L. This is true for logins and commende Lastly unlike UNIX Sine PRIMOS

Belove ago on any further some discus-The PRIMOS Command Line:

affectionalby as (processcommand); for input to the command processor (known order. The command line is the agent that persona. accepts your input and thes transports the sign; on the PRIMOS continand line is in

ER? There is no difference in the two its execution. These prompts are OK, and ing in the fact that it utilizes two prompts in The PRIMOS contrant line is interest

# HACKING PRIMOS

save that for the section I have planned on of a command, however, you will see the customizing your environment. prompts with a special command, but I will OK, prompt again. You can alter these error message. After successful execution after you make a mistake and are given an save that the 'ERI' prompt is displayed only

commend line (just separate them with a MCS command line the most. You can (PRIMOS, UNIX, VAXVVIS) Like the PRIsemicalon), and so forth. have separate commands on the same Of all the most popular command lines

rejected by the command processor and you will get the following error message: longer than 160 characters than it will be arguments) can be longer than 160 characters. If you should eater a command the No command (along with all options and

Command line longer than 160

Characters,

deration, wildcard names, beewalk path-PRIMOS command functions; command one line, user-defined global variables, syntax suppression, multiple commands on user-defined abbreviations, command line special features, and some of these are names, and rame generation patterns. The PRIMOS command line has several

Manual, still postly current in this regard) the Revision 19.0x Command Reference cial characters entered in the continand following table (like table reproduced from that they are searched for, are given in the ine. These special features in the progr thes these features by searching for spe-The PRIMOS command processor iden-

cal diaracters of any sort are always processed tirst and use no spe-Se aware that user-defined functions

FEATURE Comments Special Character

ABBREVIATIONS

No apecial characters

GLOBAL VARIABLES COMMAND SEPARATOR SYNTAX SUPPRESSOR in first position on line only

PERATION FUNCTIONS

TREEWALKING

in any intermediate position of

WILDCARDING pathname

NAME GENERATION : in tinal position of pashname 人の現場の世間の日本

idself. This is bne-to-one' substitution. substitutes the value of the nem for the long found, the PRIMOS command processor When these special characters are

thought of as creating "many-to-one directories for all file system objects that maich" that pattern. Those feasilies can be processor searches the specific directory or the user sets the pattern and the command In the case of wildcard or treewalk names ocasor to create one command for one item found or matthing on the denation tiers boretion feets cause the command pro-

names resulting from a wildness or treuwall to create matching names either our simple frenance or for whatever number of Ne-Name generator, peterns can be used

that command will not recognize it. nection with a particular commend, then as follows: if a leasure is not useful is oonfeatures listed above. The general rule is NOTE: All commands support all the

PRIMOS Command Types

mands, internal and external internal com-There are two kinds of PRIMOS com-

large. "The army of Primes is astoundingly

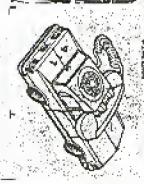
defeating the purpose. it you wish, as it will work tur that is Of course, you may add the file's extension like entension) then the program is invoked mands are built right inside at PRINCIS (i.e. When an external command's dispens is PAIMOS) External commands are proin the compiled programs that make up typed (the name of the command, tess the grants boated in the CMBNCO directory





If you have reason to question the identity of our employees seeking to enter your home o place of business, please ask to see their





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# A BEGINNER'S GUIDE

easy customizing of PRIMOS commends different acceds. Prime recognized this need (usually located in the DOS directory) take an ideal serup, really and their command structure allows for the commands. Secondly, different sites have wise) on all system models. Only the *m*ost executed flewlessly (memory constraint) commends is twofald. The PRIMOS files (adding, changing, removing, creating). It's tant) commands were made to be external important commands were built inside of made sure that PRIMOS was able to be have whopping loads of memory, so Prime up a lot of memory. Not all Prime systems PRIMOS, Less vital (yet still vasity impor-The reason for internal and external

Making Your Stay Last Longer

a few things that you should do immediate-Turboi nov. etan make this procedure routine and do it every to ensure a nice long visit. You should Now that you have logged in, there are

is what should happen: some nonsensical command. Try ad. Here Prime uses the "OK" prempt. Now, type standard 'OK' prompt but some do not For this series, I shall assume that your MOS command line. Most Primes use the the prompt signifies that you are at the PRI. ister), get the system prompt (generally an not captive (more on captive accounts berald and then, assuming the account is OK.) You are now using PHIMOS and Once logged in you will see the login

Not found, ARF (sidSep)

this senes, I shall assume that it is set to prompticen be changed and, throughout standard systems, it is "ERF. Again, this command you get a new prompt. On all Kotice that when you enter an invalid

NOTE: stop-op-one-one Standard

error. They are the same thing, just differentinames for different revision levels of stoSop you will get a (precessoommend) Command Processor, Samptimes instead want to perform a few actions to make sure Now that you are in, you are going to

to to run of all COMO flors. COMO is the on everything you type and everything PRIbuffer. From the time a COMO life is curred much like your terminal gragram's copy command, COMOUTPUT turns on a buffer abbreviated form of the COMQUIPUT that you are safe. The first of these actions the system prompt. MCS says to you will be logged to a SAM To turn off a COMO file you will type this st (sequential access method) the (silest Me)

OK, como -o :

initiating COMO command turned off all tersee what you are typing then partiags the minal output. You can turn it back on by will and any COMO processes. If you can't The "-E" argument means "ENO" and

OK, come dy

To save time, nest the arguments as

OK, 20mo & -13y

sure that you are the only person using the account you logged in to (we don't want any irate users on our hands, now do we?). Do this by typing: The next thing you should do is make

OK, SING THE

PRIVAL PRIVATE will subject the following Assuming you are logged in as user

PHILE 87 125 (85) «USER05» No octi(dec) Davices

partition that you are attached to. In this day partition case, we are attached to the «USEROS» ber. The "Line" column indicates the AMLC ID. The "No" column lists your user numkne) in both octal and docimal notation. The line you are using (the physica) medem "Devices" column displays the current disk The "User" column displays your 'User

logout in the flustrated tashion below, Neverthang up on a Prime, Always logour. The correct way to logour is listed way to legent and an incomed way to you logged in, then you should make a hasty exit and legout. There is a correct if you find that there is more than one of

OK, raterm

## TO PRIMOS

message sinylar to this: type ahead befor and gets rid of all output buffers. This throws away anything in your terminal road (input) and write (output) the system. When you legout you will see a pending. The LQ contriband logs you out of The PSTERM command empires your

PRIME (user 87) logged out Sunday. Time used: 00h 08m connect, 00m 22 Lan 89 La 24 156.

processing una (CPU) listed in minutes and formed in minutes and seconds. seconds, and the I/O time indicates how actual time you manipulated the pentral utes, the CFU time indicates how much long your session lasted in hours and min are still bewidered, the connect time is now be self explanatory by now, but in case you much actual disk I/O (access) you per-Everything listed in this message should 034 GPU, 00m 00s I/O.

by boing and see who else is on the system. Do this socount you are logged into, take a look Assuming that no one also is using the

OK, 8791 U.8

you. The Prime will display the following to

ГOP	LIB	SYSTEM	DSMASS	CSMSS	SERVER	TIMER_ PROCESS	PSIME	JOHNSON 70	HTIMS	METERS	User	
8	Ż	127	126	175	± ₩ ₩	123	54	9	şп	_1	<b>*</b>	
phant	phani	SMS	りの死	DSM	٠ ب	kernel	125( 85)	104( 69)	30 30	6.54	cott deci	
AL132 -	<comdey.< td=""><td><comdev-< td=""><td><b>COMDEY</b></td><td><comdev-< td=""><td>∠COMDEV.</td><td>~COMOEV&gt;</td><td><user05></user05></td><td>ACOMDEV.</td><td>3) -USERD\$-</td><td><b>ACOMDEVA</b></td><td>Devices</td><td></td></comdev-<></td></comdev-<></td></comdey.<>	<comdev-< td=""><td><b>COMDEY</b></td><td><comdev-< td=""><td>∠COMDEV.</td><td>~COMOEV&gt;</td><td><user05></user05></td><td>ACOMDEV.</td><td>3) -USERD\$-</td><td><b>ACOMDEVA</b></td><td>Devices</td><td></td></comdev-<></td></comdev-<>	<b>COMDEY</b>	<comdev-< td=""><td>∠COMDEV.</td><td>~COMOEV&gt;</td><td><user05></user05></td><td>ACOMDEV.</td><td>3) -USERD\$-</td><td><b>ACOMDEVA</b></td><td>Devices</td><td></td></comdev-<>	∠COMDEV.	~COMOEV>	<user05></user05>	ACOMDEV.	3) -USERD\$-	<b>ACOMDEVA</b>	Devices	

SYSTEM	Waisas	MBISAS	SERVICE	PRO.
38	155 55	Ŕ	132 133	191
phant	phone	phant	pheni	30 e ug
<user01></user01>	∠USER01×	AUSESO1V	<comdevs< td=""><td>AL133 «COMDEV» PR2</td></comdevs<>	AL133 «COMDEV» PR2

tion users, processes that execute on their ask? Why, fots. Some of the users listed What's there to explain about users, you STAT ME. Let me explain these users down user display procedure is identical to met of above agent actual people, but rather phase Notice how the STAT US command's

\*COMDEY\*

"LSt", DBMSR and DEMASH 8:4 "USM" doesn't have a line listing? Instead of the and GYSTEM\_WANAGED is JOHS! it says "asr". Also notice new Traiter. 1950. familiar cotal and decimal AMI, C line felling. notice all those users listed as "chant" too, as you can see, LOGIN\_SERVER is CESS is listed as "kernel". The fist goes on Look at SYSTEM, See how this User ID

root MFD, then cruise and come back later an MFD (Main File Directory) other than the logged in all the time. One monitors the octal/decimal AVLC line notation are not is active is to look and see where they are tem manager to do whatever he likes system's front door and logs to serven and exception of SYSTEM\_MANAGER and actual people and cannot harm you with the "Devices" column). If you see it attached to attached to fi.e., the into displayed in the good way to tell if either of these User ID's disk (and occasionally printer) all logins are consoles, terminals if you will, that are SYSTEM. These users while not people, The other just sits there, walking for the sys-(successful and unsuccessful) and logiculs. ·Basically, all User ID's that lack

"talk to" (in a manner of speaking) when you connect to the Prime initially "Nemel" is LSr is the login secrety. It is what you

directly to it. "phant" users are chantem always geared towards the system's reads the printers, backing up the system, runperform rudimentary tasks such as running independent of a system terminal. They processes (batch jobs) that are executing When you have logged in, you are talking the heart of the PRIMOS operating system System Admin administrate his system DSM users are Distributed System ning the RJE and Balch Job managers, etc. There will be there on the DSM utilities later Management utilities running as phanioms. They perform many activities, almost The DSM utilities are present to help the

#### Information About PRIMOS Files Basic PRIMOS Commands and

tures, how to view ties, how to get full stato move around PRIMOS directory strucrepeatelrs. In this section you will learn how PRIMOS commands to add to your new tus on the Prime system, and how to get We're all ready to stant covering the tirst

unique number after it. In this manner as directory called the MFD (Main File directories and how they are set up. On however, are login directories. All director the UFD's that users login to. Not all UFO's, called UFO's (User File Directories) It is another. Below the MFD's are directories logical disk MFD's are separate from one Directory). Each MFD on a system has a each togical disk on a Prime, there is a root UFD's (subdirectories). Not all UFD's have sub-UFD's, Sub-UFD's can also have subries below the UFO level are called sub-UFD's under them. It's splup a lot like most First off, let me tell you a little bit about

an MFD. In any case, to move from directo-A as being the same command. The basic mend. You can abbreviate ATTACH with ry to directory you'll use the ATTACH comformation ATTIACH is: an A. PRIMOS understands ATTACH and UFD, but in some cases you will allach to your account's initial attach point (i.e., your microcomputer Disk Operating Systems. home" directory). This will most likely be a When you login you will be attached to

To assect as an MEO you would type

DK, 四月近年

sequentially. If you are attached to an NFD name you wish to acach to as the paththe MFD you wish to attach to MFD oursthes: you will need to use the full patternance name. If you wish to astech to sub-UPO's or a UFD you simply need to use the UFD bers always start out at 0 and increment Here are some examples: Where # is the logical device number of

OX, a mid o

OK, a Mo OK, a primener

OK, a primened vinta Tap-level directory not found or Inaccessible, INFO (ATTACH)

supply the full pastname when you elieve because into it a sub-UEO and you need to attached to into in the carrest manner you Notice how when you wed to attach to info you get an error. Well, that was ments of the pathname to sub-UFD's. Notice that when you used the ">" character to separate the ele-

device numbers is easy dust type Locating all the available MFD regical

OK, Statedisk

PAIMOS returns this output to you. USERPS. USERUA USERds LISERO2 USEROI COMDE 2000 000 6 101062 32462 3748 17867 62060 168 Pdes 852 System

a system equipped with PRIMENET then given disk partition is located on another device number of a given pertition. "Pdevition's roof pathname. "Ldev" is the logical the "System" column will be blank. More on acquised from system A. If you are not on disk partitions on system II can be PAINENET, Prime's networking software system. What? Impossible? Not at all. With "System" column will be blank unless a is the physical device number. The this in the PAIMENET section. USEROS "Disk" indicates the setual disk parti-

Each of these disk parations is an MFO. the data in the "Disk" and "Ldev" columns. What is important to us incrediately is

external commands. They simplify moving お 10gg 野の田 around directories in PictorOS. Here is how ful utilities, UP and DOWN. These are On some systems you will find two use

number of levels. The specification of "n" is it will have a default value of 1. optional. If you do not speaty a value for it, UP allows you to showe up a specified

DOWN directory\_name

down into. You need only specify the UFD or sub-UFD name. There is no need to name of the directory that you wish to move directory in the tree. You must specify the DOWN allows you to move down one

industriation on this later on. Prime's CMUNCO directory (where external are on then you can upload them to the commands are stored). There will be more If these affices are not on the Prime you

specify the entire pathname.

tiat list) continued. The format is as follows: can be. You simply use the SLIST (sequen-Viewing lifes in PRIMOS is as easy as

SUST Rename

the file that you are SUSTing. Here is a list of the types and what they mean. Extension SLISTable? Description You must include the file extension of

GVAR	FIN	.F77	CPL	COMO	COMI	8	CBL	BIN	BAS	ABBREV
z	*	racedur	-<	4	~	щ	=<	z	~	左
Source code Global variable files	FORTHAN IV	Procedure Language) programs FORTRAN-77	CPL (Command	COMMANS OUTPUT	COMMAND INPUT	C Compiler	COBOL source code	BINARY Image file	BASIC source code	Appreviation files

115.			_	_			•	Nam v	
NOTE	SAVE		RUN		PMA			-  -	
The SUST	N Pr	grams; in:	Z	Assen	-<	*		*	
 able column indi-	AVE N Prime and user-writ-	cands (complied)	Prime-written pro-	Assembler source code	Prime Macro	PLP source code	abor sorues	PL/1, Subset G	

and can be viewed normally by the SUST cates that the the type of question is a SAM the Congruential Appears Mothad, a 2010 life)

words." people and people remember pass-"Prime users are like to use easy-to-

the ass. If you should SLIST a non-CONTROL P to about the fisting. SUSTable file type then use BREAK or out as garbage and that can be a pain in SLIST non-SAM files, but they will come sound on most PC's) command. You can (Sequential List, like the TYPE command

command (List Cirectory) LD will display the contents of the owners attach directors To use it just type: A very important command is the LD

CPL ties in a directory, use LO in this man too. If you should want to display all the The LD command supports wildcarding,

OK, Id @@.cpl

really quite simple all files ending with the extension TOPLY mand, it tells LD to do a wildcard search to: Just experiment with this aspect of LD. It's Notice the "修修" in the above com-

STATUS (abbreviated STAT) and LIST commends Prime you are on is easy. Just use the Getting more information about the

other options to the STATUS command. commands I mentioned series? Well, as you probably guessed, there are several Here are the other options and what they Remember the STAT US and STAT ME

option's abbreviation. NOTE: Capitalized letters indicate the

SOLVE IN ALL: Displays all info available through

device numbers of any assigned mag tape DEvice: Displays physical and logical

by PRIMENET systems to which your system is elizabed Network: Displays the status of other

esers logged in. PRoject: Displays the Project IO of all

user semaphores that have been set on the scoess to a single shared resource. cooperating user processes to control synchronizing processes. It is used by system. A semaphore is a flag used for SEmaphores: Displays the value of

and revision of PRIMOS. SYstem: Shows the system nedocame

UNits: Shows you what life units you

word luly detailed earlier. USers, ME, or Disks options here, as they nave open. Remombed, I did not mention the

out any options, information is provided on the following options in this order: SYS-YEM, UNITS, DISK, SEMAPHORE, NETif the STATUS command is issued with-

only cover the useful options. command, But is that all? Hall no. There is STATUS had a fot of options then wait until also the LIST command. If you thought you check this lavely command out. I will WORK, and with That prefly well sums up the STATUS

Assume that you are attached to your initial show you what tiser ID's have access to T ACCESS command. This command will LIST\_ACCESS would display: is STEVE.SYS. Here is an example of what login UFD. Also assume that your User ID the UFD that you are currently attached to. in the syllabus is the US-

STEVE SYS ACL protecting "<Current directory's":

MELSAS

steve sys, have all rights to your UFO. assume you ATTACHed to another user's pases. Also notice that \$REST (meaning all all of the ACL's (Access Control Lists) other user (D's) has no rights. Now, let's at rights too. Why? Most thely backup per-(naturally). Also notice that SYSTEM has USD, Say, JOHN, Here is what you might SREST: The above command example displays NONE

OK, list\_access OK, a John

ACL protecting "«Current directory

MELSAS 500 DALUSW

So glance over at Table A me to explain the PRIMOS across codes and SREST (everyone else) has LUB But wait, SIMSON has DALURW access What do these cryptic phrases mean? This would gather, would be a good time for JOHN and SYSTEM have ALL rights have. Quite a different story here. Again

codes. 'ALL indicates YES to ALL of the mnemenies are also PRIMOS access NOVE indicates that all access is decrea abaye and, as you can tull well gooss As illustrated there, the ALL and NONE

of files) can be protected by an access car gary type the following command: egory. To list the scoress of an access care-Also be aware that file systems (groups

belong to any groups than PR MOS will belong. These groups may govern access to some files on the system. If yes deal lists all of the ACL proups to which you LIST\_ACCESS [category\_lifename]
Next is the LIST\_SROUP command. if

No groups, (fist\_group)

## HACKING

following format: Otherwise PRIMOS will respond in the

Groups are: .HELP ADMINISTRA-TORS .ETCETERA

athbraviated to LG. The UST\_GROUP command can be

since a priority ACS, can prevent you from on the system capacis. LPAC is available examine at access rights and priority ACL's normally you would use LIST\_ACCESS to across on any given disk partition. While one LPAC) is used to display your prority UST\_ACCESS command Command for accessing directories and from using the LIST PRIORITY ACCESS (abbrevia

matic as follows: LIST PRIORITY ACCESS (pathneme) 67.0

ries. The proper command format is: ny and U juse) access to all higher directs: directory. To issue this command, you need mation for the current (or specified) plays ourrent disk quote and storage intercommand is issued. The EQ command disdisclayed when the LD (List Directory) ated LQ) is, in my opinion pseudo-worthto have II (Ist) access to the target director. less since file quote information is The UST\_DUOTA command (abbrevi-

LIST\_QUOTA [pathname] [-brief]

the current directory you are ATTACHED to LIST\_QUOTA returns information regarding paldoexa without pathsame,

quota of, say, (000, than the total number A quota of 1000+ is ok. If a directory has a no quera). A quera of 1 is absolutely leasy. disk records. A 0 quota is great (indicates 日本など以外 at sub-UED's below that may not exceed et disk records used in that directory and set on a directory. The limits are listed in Quotas are storage space constraints

SET\_QUOTA command to change the correct USD then you can use the UFO queta constraints. The format is: If you have P (protect) access on the

SET\_OUDTA pathname [-Max N]
The abbreviation for SET\_OUDTA is

SO. The argument -MAX indicates the maximum aumber of quotas that the specited pathname can store. N is a decimal

Back to the UST commands. Next up is LIST\_ASSIGNED\_DEVICES. This comdisplay all devices hooked up to your mand invokes a usiny in CMDNC0 that will are not listed by the Prime, such as printers, etc. Disk partitions

you logged in, then logout." "If you find that there hasty exit and you should make a is more than one of

ASSIGNED\_DEVICES command.

ing user is not in this list are not displayed ment to appearly a list of users, by name or number. Assigned devices whose assign-The default is all usons. The format is You can use the JUSER (option) argu-

LIST\_ASSIGNABLE\_DEVICES -USER (user name)

Remember, the -USER argument is LIST\_ASSIGNABLE\_DEVICES -USER USER NUMBERS

assigned by a particular user for beging assigned devices that were aptional, and not required it is just useful

command displays all of the system's hardcan have, and these are, are three types of assignments that a line wired lines and what they are doing. There UST\_ASYNC is another good one. This

ente destos (printeries) ASSIGNED: Line is assigned to a hard-FREE: Line is free to be essigned

minal or remote; LOGIN: Line is available for logic (nor

Line number, Line use, Auto speed User number, User name. enabled, Line speed, Line protocol. The header for the display is as follows:

# PRIMOS GUIDE

sure about the Auto speed enabled column user/phantem using that line. I am not loo line. User name is the actual name of any The arger digitable association with the WMCO (either TifY or TifYNOF), TIFNOP means the Line protocol indicates the line factor speed indicates the speed of the physical ine is assigned (free, assigned, login). Line fication name. Line use indicates how the Tity not operational. User number indicates Line number is the physical line's ideas.

and the number of asynchronous thes the number of synchronous lines attached troller name, its type, its davice address, Prime Node Controller, Information is given trollers present in a system, excluding the for each controller and includes the conisformation on all the communication con-LIST, COMM, CONTROLLERS displays

Tert configuration LIST\_CONFIG displays the current sys-

Prime's LaNaco system (so far as my (Section of Section of this external command works only with on a Prime LAN300 system. Be aware that LIST LAN\_NODES displays all nodes

lines on a Prime system. LIST\_SYNC displays at synchronous

OPU and IXO times and finite; the user's user's process identity is displayed, togeth-ACL groups: and all active remote identiactive COMI and COMO files; connect er with details of its environment which include: attach points; abbreviation file ment of a specified user process. The PROCESS displays the unviron

Thorn are several more LIST\_ com-

the present moment. It'll let you learn about online HELP facility, just type HELP. Or, at online help facility. To use the PRIMOS them on your own via Prime's excellent grands, but they are not use important as HELP commandname, fleatly guite sintele. you know what you need help with, type

## User-to-User Communication

system conside on another node of the not minate, the system console to any specific receive messages. Messages may be cent user terminal, or the system console to any console, the system console to all user tenterminal, any user forminal to the system from any user terminal to any other user operator. Any user on a Prime may send on social engineer a legitimale user or system with other hackers online, or attempting to system, whether you are communicating and réceive messages when on a computer work (PRIMENET equipped systems only) It is always useful to know how to send

is very easy. The message command in: matis as follows: Sending messages to users on a Prime

MESSAGE [username] [-ON nodename] -sisernumber

So instead of typing MESSAGE at the time, you can type Minstead. The abbreviation for MESSAGE is %

When sending messages to is used you nited any speady one or the other. If you were to send a message to use of of this Notice [username] and [usernamen]

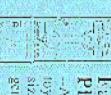
OK, m system

sage to user SYSTEM, Be aware that the That would enable you to send a mes

#### TABLEA

Write	Read	Uee	Like C	Add	Delete	Protect	Bight .
Files	Files	Directories	Directories	Directorles	Directories	Directories	Applies to
Change file contents	Read file contents	ATTACH to directories	List directory entries	Add directory entries	Delete directory entries	Change accesses and attributes	Allows user to

# SUPPLEMEN RED BOX PROBLEM!



Facts About Public Phones

gentlemen is so domg. Size common sense, as this toy; however, one should exer -A red box is not a dangerous

when one tree to use the red box the magnet to the contapiese interferes with the speaker, which is also a coapped by absorbing the sound. Such secu calent is the magnet within the mouthpiece of the pay phase your using dividing private) are not registering your beeps, as a deposited coin. mented seems new tectionages of sook and seems property throught that your box was on the birth or the pastic company has imple-It has come to my actention stat a few baxers are laying difficulties with

piece as you play your tune (if quariers don't work try dunies to makels) at though this may couse the atrenty currous guy in the ocighboded booth to wonder what's going on, it ishould work. If not, find another pay phone or up a full proof radual method and tip out the hundred, wo repute screece can part a new one in. This should work 100% of the time and a keeps you Try holding the red box speaker a 172 to an inch away from the mouth

they just build different color boxes Remember, Phone Phreaks never die;

COUNTY OF THE STAND COUNTY OF THE STAND











# HACKING AWAY

the same time, you might want to use the [usernumber] argument, it works like this Tuser with the same liser iD logged in at users logged in under the User ID of SYS TEM. In the case that there are more than message you send will be displayed to ALL

OK 19 12

enor to be displayed by PAI MOS but not both, for, using both will cause an either the user name of the user number the user with the user number of 2.1886 with the user number of 2. The message you sond in this case would only be sent to That would send a message to the user

ful about this will be sent to the system console. Be care-Usernumber] arguments then the message It you and the [usement] and [

MOS command level. when the target usor has returned to PRIsage will be put into a queue and sent only the user immediately. Otherwise the measpecified then the message with be sent to The -NOW argument is optional. It it is

ing a message to a remote system user is: system's nodengme. An exemple of sond this argument you need to know the remote Computer inc. of course). In order to use working software packages (by Prime effer the PERMENET of the UNISCO net Prints you are on is not equipped with user that is logged in on a remote site. This hed if you wish to sond a message to a argument will not be required at at if the the -ON ergument need only be speci-

OK, in hacker on sys.c.

System. called (SYS.GT) Remembed you need to know the correct podename of the remote "MACKERS on the networked Frame system This would send a message to User ID

ways to obtain this leton ration. accepting messages. There are several user) you wish to communicate with is Tessage, you should make sure that the wish to speak to you. So before sending a people) PallAOS useds may or may not Just 199 in real-life situations (people 40-

Message -STATus: Lists receive state

Of ALL USERS Message -STATus username: Lists

> receive state of all users with the name of Medical Sen

nductive shale of all users such the number: "Tegunoneso" Message STATus usernumber: Usis

18 Septiment awaring of your pain forminal process. Message STATUS ME: Lists the

indicate the legal PRIMOS approved one Community of the community NOTE: Capital letters in the above

of the output you might receive. display the message receive slave of all users prosperly coline. Here is an example you test you might be doing some user to USBC communication you should issue the Wessage LSTATUS command of the will When first indiating a session in which

OK milester

a L			i de la
말짱	支持		User SYSTEM
왕품	当る		
RAGE above	30	製	
42 Accept	60 N	Ē.	1 Z
品級			Mar.
1 10			
Č 🏲	200	2	P (6
9.8	28		Accept
8 목	36 💆	184	

alega dylebal obeszam number; without on Ships donotes and them being the physical system console The "No" column denotes the user's user there are the processes lagged in one of

reject. In theory, those states are connect receive states listed, accept deter and Natice how there are three message

ACCEPT: Enables reception of all pros-

RELECTOR TOTAL DESIGNATION OF THE PROPERTY OF DEFER Hahibits immediate messages

mand). In indect mode no messages will be received by your in the middle of a currently executing comdone (see a mossage will not appear while will not appear unit what you are being is mai introductor in opion model messages sent to you will be displayed on your torns it you are set to scoops all messages

cially useful to use receive states week you do not wish to be disturbed. It is espe-Setting a receive state is useful when

## AT PRIMOS

using any of the PREMOS editors or utilities. and sending introducts messages while in defer mode is not permitted as the user you Sanding messages while in reject mode

To set your message receive state, sin

the able to mayond.

are after play the internation of gentlands are

Mesange -state

Quite simple. "state" is nother accept, delet, or reject

ORDINAL MODEO Prime computer system. Postering legitimate users is also not desired. Use your be potentially hazardous to your stay on a sages to the system consule as that could You are advised to evoid sending mas-

laternet Shooping Tactics

00000mm. ient, or mere accounts on different Prima are doing on it, more accounts on the sysinclude: who owns the Prime and what they you can learn many things, some of which about your sewfound host By doing this. choosing the consect paths, you must shoop many Some lead to glory, others to deleton of your account (gulp). To aid you in Once inside a finne, your paths are

upon oblaining an account, as you never a routine and that you do diversefately know how long it might last. urge that you make the snooping procedure There is plenty for you to do. I strongly

party development systems, and Primes had expected. may ablain a be more information that you Depending upon who owns the host, you belonging to certain telephone companies pest systems i have been on were Pring what they do on it is always rewarding. The which shall, of course, remain nameless). Computer, Inc. development systems, 3rd Finding out who owns the Frime and

(source code) and documents accounts, as can individual programs are exceedingly lax. A brief inspection of all mail in the quoup can sometimes yield you are really witch however, Wany users More accounts on the system is what

Itms, I am saving that for the future section As for more accounts on different sys-

> of information regarding the advanced on Rame networking. There will be a host respective Token-Ring/LAN900 networks about PRIMENET based systems and their secoping factors used in order to shoop

Internal Security

control lists (ACL's). Gealing around ACL's mented and how to get eround it. As you is almost an impossibility. MOS commands, PRIMOS utilizes access how PRIMOS internal security is implehave seen from the section on basic PRIyour new Prime, you need to understand Before you can really start explored

worded directories. To attach to a passsomething similar to this. worded directory, you would type Also you will occasionally rub into pass.

OK, a 'dirname password'

type something like this attach to a passworded sub UFD you might entite deal with quotes. If you were going to name with the password and enclosed the Notice how you tellowed the directory

OK, a 'primenel'>Infa> source でのからずられば、

SLISTing (tem) for prountances in PRIMOS up to the correct resistant term quotes. That's about all the interval socially ATTACH statements prolosed in single ten around Look inside CPL programs (by (22.0.0). the ass, but, unlike ACL's, they can be got Passworded directories can be a pain in

Exploring the Vasi Reseases of a Prime

many UFO's there and look at everything to MFD 0 and start down-attaching to the under it. When traished there, or vise on up Leave so Ne uchead every the in it and every life it sub-UEO's Start in your initial attach UPC Chicek out ewigrang Leave ne UFD un attained in SUST SI SAM thes, read all niall, book at When toking around a Prime always

low up everything you captured able to your buffer. When done looking felinvestigate a Prime, but believe me, it is hours (sometimes as many as 12) to fully worth it. Capture twerything that looks valu-Understandably it will take a good tex-

agg Mannauth Jos aud Union City aud Demoy City aud Demoy City 361 Mejliche 362 Merwed 363 Likerius 363 Merikan 365 Orango 365 Merikan 367 Rander 368 Merikan STS Markotts STS Markotts A Straibeth
A Straibeth
B Straibeth
B Straibeth
C Stra B Potestan 9 Panestan 0 Belling 1 Balla Modd 8 Meuchon Monague Boin Bossan Franklin Park Same in Same in the Control of the C Somethorie South Rug Davie (Lamptown) Torra Piver Cakkand Reported Regione Notice Marketown Serion City Boorton Adamic Highlands Moniscours の内のあるす Franchisch Har Medicine Melychen FRANKATOON Jussey Oly PHONE MANAGED IN Had House literation Boarkon dountar Park Didge Calcoling रिटाइ मिन्ड र Paleoni 4-19 New Brints 4-20 Laws Copy 4-20 Frankin Par 4-20 Frankin Par 4-20 Haydrone 4-20 Haydrone 4-20 Haydrone 4-20 Laws Op-4-20 Laws Op 55656828385888**2**8 8 New Brunswick O Jessey City O Jessey City O Paradish Rock O Paradish Rock O Hawberne Micropany O Bloomfold Sarway Mariakan Surion Chy Sudbrouck Righters Hydroxy Hackgrayack Nachanic Colored City Colored Colored Suprovi South River OMMO 7628 949, B399 South Grange JOW'SE Whippary TOWN ON THE BOOK 上のはのできる。 Calculation Children (MANAGODE) 256 Howers
257 Bound Broke
257 Bound Broke
258 Bound Broke
259 Bound Broke
259 Bound Broke
250 Romand
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E28 Armeloung
E39 Armeloung
E30 Armeloung
E3 Comercians
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Comercian
Comercian Supply of the su Newsy's Bound Brook 中のスカがあるえ Post Pleased

# 201 AREA CODE

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	100 DED-200		があったり			) (	(時の) を確定し 見るから		JOS CONTARA H	- 724 Dove		Sec. 200	w i	THE PROPERTY OF		ć	100	_	706 NOT-25	_	-25	_	Web Marks and Sex	Z. 1	SOUND TO SOURCE SOURCE					, i	100			Ξ.		000 000 1000 000 1000			20		à.			DOT THE COMPANY	Company Company			45		SOL MANAGED STATES	E C			00.1	Control Control of the Control of th	_	- 200	70		OR OF THE PARTY OF		4
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	890 (Political)	100	_		Real Contractor	DOD CHARLES					. 10		2	676 (Choste)		Order Conjugacy	200 1000 Cales			というのでの	Englanded	_						ONLY LIGHT CAN				856 Philipsons	_	-	Ξ.			Ξ.	カイス 一方のカライグ			SON NOW BEINGHOLD	01-5 1500000000 /	Sad Bound Brook	ON TRANSPORTER	のとう。日本は、日本の		を 100 mm 100	20		Teachers	DOMESTICATION OF THE PARTY OF T	_				CONTRACTOR OF THE CONTRACTOR O			のない。は何はない	ONLY DOMESTIC	
			lega Segra	yn.	útv	240	erol	10	771	01	120	9.1	iő,																																																	

Page 20

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Page 11

condless and cellular. ed in eavesdropping on phone two types of telephone caus marily concerned with receiving calls. This article will be priuseful tool for anyone interest-A radio scanner is a fun and

side on 49 MHz. There are also phones which operate only on 49 the handset transmits only one the conversation on 46 MHz and are on: 46 and 49 MHz. Usually condicas phones operated on 16-1.7 MHz, the new ones operthe base transmits both sides of Although some of the old

irequerenes: responding base and handset The following is a list of con-

0.0	6.5	0.0	46.830	0	0	0	0.0	0.0	in	000
9.97	9.99	9.93	49.890	900	9.87	9.77	9.86	9.84	9.67	20

telescopic antenna, if you know about 3000 feet with an indeer a range of about 1000 to 2000 Your neighbor has a condices The longest range I've gotten is expession on all your neighbors feet. That's plenty of range to sions on these frequencies have The cordless pitche transmis-

> frequency, program the frescanner, then call your neighquencies I've tisted into your your own conversation frequencies and you should hear ly on the cordless) scan the bor. When he answers (hopefulphone and you want to find his

homes. Think twice before you manufacturer of scanners Uniden Corporation, a major someone near you has a scanner could be received with east. If at over four million American rity. It is not unlikely that you use a cordless phone, you Use that condiess phone. reports that there are scarnors should be conspended about secucondiess phone conversation It is obvious that anyone's

inoguencies system is called Vectorone market. The company using this MHz band are much more expenbetween 451 and 459 MHz ners, Mowever, in my location standard coverage Some manusive than other scampors with Cellulan. They use the following by virtually all scanners on the These frequencies are covered phone reception in their scanjacturer's also block out collular Scanners that receive the 800 phones are in the 800 MHz band quencies allocated to collular are also easy to receive. The freselelodo negl entales le (San Diego) i discovered a celii: Codular phone transmissions

## FOR CALLS

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quick chock in the phone took which is played when one you called is not available. to find a cellular service operband to see if there is a similar unavailable mobile user. A mobile user tries to call another which said "the Vectorane user coission of a recorded mossage pany after hearing the transfound out the name of the comalong on this band. I finally Needless to say, I was surprised suggest searching the 450 MHz vertice the company's exiscellular service in your area If you own a scannor I would

less phones, the near my house receiver. Some of these letecmother can hear the kid cry or placed in the child's room so the babysitten" is hesically a radio babysitter" to keep track of Some people use an "electronic out enother interesting method sneeping, I would like to point 46 and 49 MHz elong with condtronic babysitters" transmit on the house using the matching whatever from another part of their kids. Am "clockronic (usually FM) transmitter that is While we're on the subject of

> own houses by using an 'elec-MHz. People in effect bug their transmits continuously on 49.82 the short, about 500 to 1000 feet mate the range of these units to tronic babysitter" if world esti-

tow scanners and frequency quency directories. Their address is 10 Now Scotland can be bought for about \$100 are pretty cheap. A decent one other transmissions Scanners also hear air, maribe, fire, busigu/des. 1.1725. Szdio Shack also sells a address is Box 55. Commack, NY Research has quite a few fre-Catalog is two bucks. Also, CRB Ave, Albany, New York, 12208 good selection and prices. Their Scanner World in Attany has a ness, malitary, and countless of the petice with one You can phone calls. If you happen to be discs pesides eavesdropping on a chiminat, you can keep track Scanners have many other

# GOT SOMETHING TO SEND US? NOW YOU CAN FAX IT! OUR ULTRA-COOL FAX MACHINE WILL ACCEPT YOUR DATA 24 HOURS A DAY. CALL 516-751-2608

Suprover 1989 2600 Magazine

## The Voice

#### The South African Phreak Crisis

Posted on one of our BBS's:

of charging, instead of the precontrolled by the government company, and which is directly order to stay on the internaof phreaking or find dedicated either have to work out a way as long we want, we will now of being able to stay ordine for on out trunk calls. So instead on a pay-for-time basis as used local calls, they will now work sent method of not metering will have changed their method which cardrols our sole telecom the South African post office, "unprotected" terminals in tional computer networks. By the time you read this,

South Africa's telephone system is in its most vulnerable stage. We are in the process of moving from the mechanical exchange system to the digital system. This means we are running on a dual system. Thoughout system to phreak. About 55 percent of the country is digital and 45 percent mechanical.

Our system is nothing like the U.S. We have just been introduced to tall-free numbers (we call them 0100's). Conferencing systems are controlled by the post office, and are expensive as well as small.

Systems such as voice recognition hanking services are only just being started. Overseas calls are expensive and the charges are the same at all times. Only approved equipment may be used on the lines (heb-heb), although there are various places where we can buy U.S. stuff [until they are closed down anyway].

Because I don't have much experience to the phreaking area (I'm more toto the use of systems on the end of the line). I need information on possible ways to get back onto the net.

Should we not succeed in "breaking" our disgusting telephone system, there will be a lot of networkers who will be forced to stop.

for bugs. The most abulous certain that there is a way will this country use 800 numbers new system with a patential Pireaks), considering that it's a rates for local calls no matter calls, i.e. the longer you slay world face the problem of timed many people throughout the to bypass billing. bers, just as many phreaks at solution ties in the 0100 number how close they are. But we're here, businesses pay timed on, the more you're billed. Over for SAP's (South African We should point out that

# of Our Readers

## Payphone Query bear 2600:

Great magazine! Just got my first issue and am going to order more back issues when I've gut the money. If you could focus a bit more on phreaking instead of backing, us country boys would appreciate it.

In regards to your Spring '89 fortress phone article. I ask you this: since private payphones are put on normal customer lines, wouldn't it be possible to receive a collect call from someone using an AT&T payphone elsewhere? The AT&T operator wouldn't know it's a payphone, right? I've heard of this working before.

still don't have access to the Some long distance companies that's not to say it won't work automatically at that point, But would install the screening assume the phone company Just'a regular phone line. We owner more for what is really can charge the payphone local phone company so they posed to be registered with the private payphones) are sup-Coin Operated Telephones, i.e. COCOT's (Customer Owned metudes your home number. from being processed. This screened to prevent collect calls Any telephone number can be The key here is screening. Uncle Ho

> where on it. the BOC names appears some antee is whether or not one of using a COCOT. The only guarno guarantee that you are not used as COCOT's. In other Attantic, AT&T is currently words, using an AT&T phone is making payphones that are ech. Bell South, and Bell are now considered to be the Nynex, Southwestern Bell, U.S. ones operated by the BOC's West, Pacific Telesis, Americ (Bell Operating Companies): the way, the "real" psyphones The key is to keep trying. By a collect call to a payphone. screw something up and send ANY payphone, not just a tor or an AT&T operator will sistances where a local opera-COCOT, And there are still database that tells them what them, it could go through to you place a collect call through numbers are screened. So y

#### UNIX Made Easy Dear 2800:

Thank you for printing Red Knight's excellent series of anticles about backing UNIX! Too inuch of your magazine is of an arcane, technical nature and it was a great relief to see an article written by a beginner and for the rest of us beginners, about the basics of using UNIX. I do not have any expensive UNIX manuals, and Red

# You Too Can

Knight's summary saved me
the trouble of buying these
manuals from my bookstore.
Remember, information doesn't
have to be secret or complicated to be useful!

Thanks again and keep-up the good work!

### The Micron Did You Know?

#### Dear 2600;

There is good reason to put return addresses on the back of mail. While snooping in first class mail goes on all the time, any information obtained in this manner would be inadmissable in court. There is no restriction on copying the outside of the envelope, however, if the return address is on the back, there is no proof that it was on the same envelope as the "to" address.

### Name Withheld

Not until someone fluents a two-sided copying machine...

## Notes and Info

#### Dear 2600:

Some quick reference notes:
Specialized System Consultants (P.O.B. 55549, Scattle, WA 98156) produces very complete quick-reference guides for UNIX. C. Fortran, and other high-level languages/operating systems. For \$6, they will send a quick-reference guide for UNIX to very

The ANI for parts of the 215 (Philadelphia) metro area as 410-4100. For parts of the 717 area code, it's 311. The ringback for parts of 717 is 511 followed by the number year are calling from Also in 717, diating 711 from a payphone will discounce if the large minutes.

Finally, from J.C. Whitney: cat. #14YE8543N Security York drivers (\$11.00) — these babies will remove the single bolt that holds blue credit-card phones to the wall!

#### --

#### Dear 2600:

The ANI for 619 is 211-2111. Also the ringback for parts of San Diego is 1-332-xcx, where xxx is the last four digits of the phone number. Hang up quickly until a sleady fone comes on, then hang up. The phone will ring.

#### Mr. Upsetter

#### Dear 2600:

The Spring 1989 Issue was the best in a long while! Glad to see you getting back to your roots: phones!

#### 3

## Crossbar Trick Dear 2600:

If your telephone line's central office equipment is #5 crossbar, here is a way to tell if an incoming call is contag from within the same office equipment or a different office.

# Write A Letter

from a distant office. shorter time (approximately 80 was at 0 volts for a much office equipment. If the voltage coming from within the same ins, then the incoming call is 0 volts for approximately 250 ms), then the call is coming set, you will hear a loud "ellek". line with a high impedance test volts. If you are monitoring the will momentarily drop to 0 occurs, the phone line voltage If the phone line voltage was at trank onto the line. When this will release the incoming call's equipment's completing marker an incoming call; the telephone seconds before the first ring on Somewhere between 0 to 4

It is passible to build a circuit that would sense the o voltage level time and indicate the type of incoming call (same office equipment or distant office equipment) when the first ring occurs.

#### JW

Since we happen to be on a 45 crossbar for at least wiother year, we could use such a device, if someone would care to design one for us.

## Stories Wanted Dear 2600:

For an opening book on computer crime in the 80's and beyond, I would welcome correspondence from anyone with anecdates or personal experi-

> ences concerning Jerry Schneider, Stanley Mark Rilkin, Neil Patrick, Harold Rossfields Smith, Robert Morris, or Kevin Mitnick, Please address any responses to Buck BloomBecker, 2700 N. Cahuenga Blvd., Lus Angeles, CA 90068 or call 213-874-8233.

# JJ Buck BloomBecker, Esq. Director National Center Computer Crime Data Tuning In Calls Dear 2600:

on it. From Washington DC I signals from around the globe around my room. I can reache a piece of wire duct taped receiver for \$3 and use a with of this: you may be out of range of the ship at sea, Also note that the equipment is not receive the base station, think voices is speaking. If you only when the stronger of the two really fancy. I got a surplus only try to adjust the BFO miss the entire band. Second. sweep through the band with your readers rolpht like some you leave it off, then you could the boat frequency osc. on H blats on turning them in First. wave radio listening, I thought informative. Concerning short-"Overhearing Phone Calls" very pure ansi Treceived your Winter 88-89 pand

### Cyber Punk

## Austrian Phreaking Dear 2600:

In Austria we have a very sad situation concerning the phone system. Our system uses pulse dialing only and dates back to the fifties. Charging is, being done by hand every month (ii). They photograph the charge counters (mechanical of course) every month and the clerk (yes their into their 15-year-old computer that prints the phone bills.

Collect calls or any of the other features you "enjoy" in the U.S. don't exist in Austria. However, they started introducing an MY-system in some parts of Vienna recently and blue boxing seems to be safe as far as I know. The situation is improving.

Hacking in Austria is pretty boring because phone costs are astronomically high (1 minute local: 50 cents!!!). Most systems do not use direct-dial but leased lines for communications

## Just Say No

### Depr 2600:

Here's a note of possible interest.

their customers. But banning the use of an innocent piece of a beeper. Presumably, this is under the age of 21 to possess criminal, offense for persons 1504) that would make it a (D-MD) introduced a bill (J.R. beepers to keep in touch with Also, why age 21 instead of 18? telephone technology by the because many drug dealers use a living as messengers, field deal with the drug problem. young is a proffy screwy way to this bill. (H.R. 1504 was Maybe we should lobby against requiring the use of a beeper? dents and others living to carn What happens in college stureferred to the House Committechnicians, or some other job tee on Energy and Commerce.) Congressman Kwelsi Mfume

We certainly should lobby against this bill. It's another engainst this bill. It's another engated clear example of high tech phobia. This time, instead of trying to figure out why drugs have become such an essential crutch to so many of us, the authorities think that making a small bit of technology illegal will somehow solve the problem. For one thing, beepers don't make drug deals.

### лепе

gets of the lawi who obviously are not the tardrugs is illegal. So how can a grassly obvious fact. Dealing meaning class are overlooking More importantly, these wellmight use them to deal drugs? law will be the law-abiders. will be inconvenienced by this beeper? The only people who they expect anyone who flegal illegal to certain people who Should all of these be made pockethxoks, and automobiles. like telephones, notepads, honor the law and not carry a ly deals drugs to suddenly People do. Beepers are a tool

#### A Myriad of Questions Dear 2600:

tracked down the infamous with me reading the book Radio Engineers", along with had a 1975 CQ magazine conneer at a television station who I became interested in blue Secrets of the Little Blue Box". 1971 Esquire article, "The "Hackers". From there. long and twisting, beginning listing in Reference Data for plans along with the MF tone taining red box and blue box finally turned up a chief engiplans with which to build one. I boxes and began searching for listing. I also found the lone My path to you has been

> readers? Here goes: behind the times, I wonder if work in most places: I am told). completed blue box (that won't address. So, here I am with a Fortunately, an electrical engithing while I had the facilities. I mation that I can't quite grasp. ably simple to most of your rions that are probably laughyou might answer some questronics lab and, tronically, your new job had a complete elecneer (and satellite pirate) at my linal pot tuning was left out. almost did, but some of the decided I'd better finish the ested for a white. When it came blue box, but became disintersome tn-depth telephony infor Because I am so terribly far time for me to leave my job. I Subsequently, I halfway built a

 Why don't blue boxes work anymore, and if a place can be found where they do, why are they so easily traced?

 One of the guys at your office alluded to the fact that free phone calling is still done. How?

3) Do red boxes still work?

4) Have there been any recent arrests for phone phreaking? If so, was the punishment severe?

5) What parts of the U.S. and Canada are hotbeds for phreakers?

6) Could you suggest addt-

AND ACCOUNTS.

## The Letters

contemporary than the ones t azine articles which are more and the like.) Maybe even maging, phreaking, petty thievery. addressed by 2600? (i.e., hacktional reading on subjects

about still active? and backers that I have read 7) Are the original phreakers

Are these numbers still in exisconferencing. Fact or lantasy? that set up cross-continent that could be called for free made reference to numbers 8) The 1971 Esquire article

Marketplace) ence to the Autumn 1988 9) What is 'TAP"? (in refer-

eral public isn't supposed to devoted to things that the gentions like 2600 which are (0) Are there other publica-

was a kid's computer. to the C64, which I thought hacker? I saw much reference puter used by the modern-day 11) What is the favorite corr-

following? How big? 12) Do you guys have a large

about calling out for Irec? sions is pretty simple. What dropping on cellular transmis-13) I understand that paves-

the kid pulled with the payteleo friend of mine if the trick 14) I remember asking a "War Games"

> seemed to think it would. Was the chassis) would work. Ho ignounding the mouthpiece to

will do the task on other computers? computers that it found. Do wouldn't selectively log any range of exchanges, but the actually went through a set an IBM PC (no compatibles, no you know of a program which XI, no AII). On my Wyse 386, ii (same author as that program). program used in 'War Games' a newer generation of the distor program which was supposedly It supposedly only worked on 15) I downloaded an IBM PC

IBM 9C compatible backer soltwarre? 16) Are there any sources for

advertise my ignorance. your reply. Please doo't print have enclosed some postage for this letter, because it will just you in advance for your help. I in this field, aren't I? I thank Well. I am truly an amercur

tance to start a bine boxing

adventure. Our 1985 issues

have more also on this.

same questions. Let's go many readers who have these through them one by one. Resides, we believe there are name and location, it would Not if the don't print your

Inter-office Signaling (CCIS) gradually granding to a half is because of Common Channel I) The reason blue boxing is

# Never Stop!

caught making a very long call any good excuse for Many is something there really isn't trunk thie and gain control of 2600 herts tone to seize the tories) because he is unable to impossible for the caller to phreaks use directory assis to directory assistance, which it) It's also possible to be being transmitted. For need a that sense 2600 hertz tones because of detection devices But it's easy to be eaught tones will still have an effects point where CCIS has not yet access the separate data this. send his own signals (blue box callen is using Soul becomes separate from the voice line the the signaling over a data line. been implemented, blue box If you can find a terminating Simply put, this system sends

you are outgoing dialtonel. fusually 800 numbers that give party oals, or using extenders farce companies, making third codes to the parious long dis be made by Jiguring out access 2) Free phone calls can still

quite usells 3) Yes, red boxes still work

some sort in the news. The leng more severe as use demonpunistanents appear to be get-4i There are always busis of

strated to the Spring Issue

and you'll find some refertelephone lines, not by location. 6) Look through this issue 5) Phreakers are linked by

chees. We prout them as the get

just make free phone calls. We consider anybody to be still have done more in life than to what they do note. they did in the past contributed to assume that those people active" who believes that when 1971 Esquire article, we'd We 7) If you're talking about the

jud them. on the sources from too shall who their place. By investigate there are plenty of others to no longer in existence: But dollar that those numbers we 6) You can bee your bottom

started out as a Yippie publica been attempts to rectice it. 1981, although there lave tion. It stopped publishing to phone phreak newsletter that 9) TAP was the original

one that consistently covers about Since we began in 1984. you're not supposed to know azines that focus on things that authorit inter docken. however, we have you to see 10) There are plentified may

matier what kind of coopular ties in the Jack that it doesn't 11) The beauty of kacking

CONTRACTION PROPERTY

without getting into trouble. garbage, and then how to do it your local phone company's gotten into trouble. I want to first sense and discretion. I've never been charged. By using common never been caught -- just never charged. That's not to say i've their garbage bins, I've never been cally make regular rounds through know; even though by now i practithrough their garbage bins. I don't cute anyone who goes rummaging go to extremes. Or so they say tell you the benefits of exploring I've been told that they will prose-The phone company will indeed

about Irashing. see text files on various BBS's local teloo's garbage bins I also gain from trollopping though their about the rewards other phreaks and 2600. I hear takes off and on ject have appeared in both TAP tionary notion. Articles on the subgarbage bins is hardly a revolu-Thrashing though the telco's

off: Il gives me a sound idea of the my purposes, or useless. But, oh, cent of what I pull out is rather that other 20 percent really pays mundane, boring, not practical for I would estimate that about 80 perthan to the phone company itself? about the phone company other go to gain valuable information refuse bins. Where else would you potential payoff of my telco's is no equal when it comes to the As far as i'm concerned, there

> the world is a gold mine! phone information is concerned picture indeed, as far as tele up the loose ends and fill in the big and Telecommunications help tie publications like 2600, Telephony, local and regional picture. Then

my raiding activities. working within, and are out of the stay away from it. I like buildings ger the telco building the more mainstream. Het these rules guide that are small, have a lot of grunts brass working there, the more t people work there, the bigger the which bins to raid is this: the big-My general rule for deciding

size of malls and have special telco buildings with art deco decorating that have parking lots the In my area, there are some big

own shortcomings." into trouble by their phreaks have gotten "The majority of

these minimum wage workers them: day and night: I'm sure use to get the state utility commisprivate security force working for same of these buildings have a sion to raise the phone rates. As poor targets security wise. First, far as I'm concerned, these are think of the next expuse they can teams of workers assigned just to

## on trashing

does not pay off. increased chance of being caught risk ratio is too high for me. The could be found), the reward versus presence; at the very least, a is (I'm positive a lot of good docs going through their dumpsters to: more likely to prosecute people faster response time. Fifth, they're may mean a more overt police business districts of town. This buildings tend to be located in the also increased. Fourth, these being spotted by an employee is night shifts, so your chance of cally more people work the mida for of documentation. Third, typilocated inside of them, destroying dunipaters also have compactors to haul it away. This may translate one, which requires a semi-tractor "trespassing". So, as tempting as it into a more difficult entrance into that the dumpster is a king-sized the building. Or, it may be the case uments). Second, the access may be located on the inside of also may include shredding of doccomes out of here is likely to be the dumpster. Some of these limited. The chute to the dampster holes into the dumpsters may be developed security system (which more sensitive; hence, a more their garbage. The information that finding someone going through make an international incident of have nothing better to do than to

buildings. These buildings are usually physically smaller in size, have My target lies in the smaller

> gready: the potential payoff justimay not be as good. I'm not Fourth, the garbage containers are police presence is not as strong. of being caught, almost. Third, the night. No people means no chance work at these locations late at security presence at these locations. This is a definite plus! reasons. First, there is usually no storage tacilities. These building buildings may house switching opposed to company cars). These trucks in the parking lot (as inside. Although the information ly have any shredded material easier to access and do not usual-Second, little or no people tend to are an attractive target for several ment, computer operations, or equipment, maintenance equiphave a lot of company vans or a warehouse-type of exterior, and lies the risk.

mow the fawn with: I also wear a worm out, out of style stacks. I use that I've used for two seasons to a pair of worn out tennis shoes including the rear, and a pair of Levi's that had enough holes in it. had there. I also bought a pair of bought the scumminal jacket they purpose. I went to Goodwill and a special outlit I use just for this road and never come back. I have more likely to be told to hit the food. That way, if I'm caught, I'm like a transient rummaging for dress. Simply put, I try to dress Equally important to me is my

(100 thousand on page 44)

# THE SPRINT GESTAPC

by Larry P.

simplicity's sake. Here is his man. So, I'll call him "Mike" for dize his current status as a free and this information could jeoparone, since his case is still pending protect the identity of the busted information has been omitted to clumsy those types are. Some laugh or two when you hear how evil telcos and maybe oven get a will help you know what to do if one of us. Hopefully, this article you happen to get nailed by the Yes, Sprint has nailed another

the house. the search warrant and entered that point, and they showed him computer and he said yes, a asked his dad it Mike owned a got home. Ringing the doorbell, search warrant. The very next day Commodere, Mike got home at Mike's dad opened the door. They they went to his house before he authorities who proceeded to get a number, notified state and local after getting poor Mike's phone being traced by US Sprint, who, was hacking them out, he was dig up some codes. After a while, he had several of them. While he US Sprint Corporation) hacker and up his Sprint FON (a trademark of One night, Mike decided to boot

some Secret Service agents, a specialist) went to Mike's room, U.S. Sprint executive and his IBM (one local Forgery Squad person, Once inside, these five men

> tude for law enforcement agents. seamed to only want to get the job desk. In fact, Mike remarked to me paper basket or behind or under or detective and the cops looked finished. What a professional allithat they looked bored and below or in things. Only part of the They never looked in the waste the papers on top of the desk. They only cast a brief glance at ion, missing over half of them. through drawers in a random tash-The Sprint gluy took pictures. The

What clumsy cops. They didn't find disks with the codes on them. dence, since he had formatted the stupid system." They had no evisaid, "See, I didn't hack your prone, nonfunctional program and have found it and loaded a crashwere deleted. Mike then claimed to with functional back programs to format another, until all disks his notebook hidden in The basedisk, he formatted the disks with was prefending to find the right "Oops, wrong disk" and proceeded formatting a disk, Mike said, what disk it was on and said that Mike. Mike claimed not to know the hacker programs. Right under he had to find it first. So while he "Load your hack pregram, kid!" to he noses of the dumb feds. After The Sprint executive then said,

because he had trouble discon-Commodore, I say "altempt" ceeded to attempt to dismantle the The IBM specialist then pro-

# STRIKE AGAIN!

おおのは、 pay for it. What was his reply? lellow if he damaged it he would the ground. Mike told the Sprint tive dropped the disk drive onto Cadillacs. On the way, the execuequipment into garbage-type bags color TV, the disk drive, and "See ya in court, kid!" Laughter teland hauled it to their dark blue doubt damaging pins and wires. ping apart the connections, no confused him. He ended up ripmodern. The screws must have necting the computer from the The Sprint executive then put the

disks. They took Mike home at that downgraded to a misdemeanor learned he was a felon. Mike's popularity soared as people point. The next day in school, such little evidence, except for his and it may be since they have service. Mike hopes it will be gal access to lines of a telephone TV, his computer, and his game under a lower class felony for itspolice station and backed him They then took Mike to the

flumber generalor opeasionally automatically reseed the random domly, but also have the program sequentially. Have them done ranbers. Don't hack the codes use multiple target "dummy" numbetween 7 am and 10 pm. Also, That is when the tewest people use the network, Instead, do it don't hack your cades at night. with a bit of advice. First of all Mike and I want to leave you

> warnings. Now Mikey has some things to say: ever, to commit fraud, heed my card with your phone number. In since the pattern can be tracked. If type of fraud. If you decide, howing that it is proper to commit any no way am t implying or suggesttry it only. They will also print out a account, turn it off for the time you you will try, and if it is a valid might anticipate the next number your pattern is tracked, the system

words indeed. "Bon't mess with Sprint!" Wise

your room or near the computer." where else. They will only look in your reem and well hidden someyour disks and notebook out of "To Phreak and be sale, keep

cials handling things? competent law enforcement offimake you feel secure with such phone for two days? Doesn't it brain? Why did they disconnect his expect to find hidden in it? Hitler's phone away? What did they Why did they take his TV and telefelony. A felony! They don't charge rapials or muggers with felonies They charged Mike with a

and let everyone know it anything alse turns up. I will keep in touch with Mike

371-554 512 4948 家のかる (used for turning in "counter-revolutionaries")
To dial from U.S., preface with 911-86-1 256-7990 443-299 CHINESE SNITCH NUMBERS 072-179 665-089 272-316 000-2463 \$12-5666

### by Polor Bruco

As the Spanish summer gets hatter, so do Spanish tempers. And with good reason.

In the space of just a few months, it seems that Spain's telephone system, once one of the most efficient in Europe, has all but callapsed. Spaniards lucky enough to have telephones find themselvas unable to make calls or are frequently cut off when they do.

On average last week, it was taking nine or len attempts to call London from Modrid. Getting through is only half the problem — domestic and international lines crackle and rasp constantly.

Same 350,000 people in Spain are waiting for Telefonica, the once-vaunted telephone monopoly, to install belophones. Most will wait at least six months. About 25,000 Spanish villages do not yet have a public telephone, according to some reports.

A European consumers group in Brussels, in a recent study, said Telefonica was now taking roughly land times as long as its French, Dutch, or Danish counterparts to install telephones.

Other than Greece, Ireland, and Portugel, the study said, Telefonica appeared most frequently at the bottom

of its ratings.

The Spanish service costs double the French and even the West German ones, the Brussels report said, and its rate of wrong connections was the highest in the EC. Last week, it emerged that the Government had appointed a commission to study Telefonica's investment plans for next year — an extraordinary move, considering that Telefonica is a private company.

There seems little doubt that the hand of Telefonica's affable chairman, Mr. Luis Solana, is on the black, Although a member of the governing Socialist party, a friend of the Prime Minister, and the brother of the Education Minister, Mr. Solana has seemed desparately short of support as the public outcry over Telefonica's service has risen.

Opposition politicians have had great fun with a retort attributed to him, to the effect that "perfection is fascist".

A colleague recently arrived in Madrid and trying to order a home telephone from his office failed to find anything democratic in being told by the Telefonica functionary at the other end of the line: "Sorry, I can't hear a thing you're saying."

"So whose foult is that?" he waited,

Atr. Solana, contranted with failure, has not tried to disguise the scale of the problem. The waiting list for telephones will probably grow, he has said, to 430,000 this year.

. He has promised that more new

# and what they don t do

lines will be in place by September.
Spain has about 15.5 million telephones and 10 million lines. Telefonica
plans to install 1.5 million new lines
this year and 2.5 million more next
year. But there is no saying whether
that will improve matters.

Telefonica has been cought whally unawares by the explosion in telephone demand in Spain. In the past two years, applications for telephones have grown by close to eight percent a year, a huge leap on the average two percent growth a year since 1970.

Mr. Salana has said things will be more normal next year, but some Telefonica officials suggest it could take five years.

Appearing on Spanish television this weekend, Mr. Solana said: "My main mistake was not having believed that the Spanish economy would be going as well as it is now, I did not believe statistics forecasting Spain's economic baom." The service was not a catastrophe, he insisted, but it was "improvable".

What irks Spanish consumers -- and its Barcelana, business groups are warning that the state of the telephones is damaging to competitiveness -- is that this trouble has arrived along with record profits for Telefonica last year and higher than ever investment this year and rext year.

What hurts even more is that Mr. Salana is about to spend some of that in Argentina, where Telefonica wants to buy 40 percent of a new PTI being cre-

ated there. The Russians have also just signed a deal with Telefonica under which the Spanish are to install a rural telephone network 600 miles from Mascow and a public phone system in the Soviet capital itself.

Mr. Salana's comfort in the short term at least, is that even warse trouble at the Post Office diverts some frustration away from Telefonica. The Spanish postal service estimates that up to 2 million letters and parcels are, effectively, stuck at past offices around the country.

The postal unions say this is nansense — there are at least 11 million piecas stuck in Madrid alone.

As Spain approaches its first presidency of the European Community next January, the chaos in many of its institutions is going to become emborrassing. Europeans who want to complain about it may, however, have to fly or drive to Modrid to do so.

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telephone program, Tucsday, 7/25 at Hosted by Emmantati Goldstein. TUNE IN TO "OFF THE HOOK", the 7:30 pm on WBAI New York 99:55M

Glenwick Pl.: La Jolla, CA 92037. acronyms, only \$4. Jay: Ha over 300 phone and communications telephone acconvins? Don't be con-FOUNDAY AND STORES IN fused anymore! Send for my list of

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Page 40

The 1989 Pirate Radio Directory

their frequencies. at a time and frequently change are only on the air for a few hours patient DX'er -- these broadcasters broadcasters is meant only for the catalog of about 50 pirate radio they were last found as well as their most recent mail drop. This Details include where and when well as a brief history of each one. pendium of the pirates of 1988, as truth. Here Zeller provides a comdirectories) to aid in the search for handy shortwave/DX guides and Publications (makers of various useful publication from liare George Zeller provides another comes to radio, nothing is more 1989 Pirate Radio Directory free than Pirate Radio: In The the power of radio. And when it rucations, nothing comes close to When it comes to tree commu-

capitalists, and praises the work of tomorrow without Blacks, Jews, or covers the not-so-secret Voice of out their word through the power read these words. The directory passing through your body as you of radio waves which may now be tions like this have been getting Marijuana Cooperativa Illegal stashortwave station of the California Nazis. To catch them try 7410 or Tomorrow, which promises a station with your mind in mind," the ing to "KNBS Cannabis 41; the his holidays and weekends; listen-We know where Zeller spends

> provides a good start in the search The 1989 Pirate Radio Directory one broadcast in 1988. Others beyond have had a more notorious history. like Radio New York International senting the satirical Church of the shortwave); : Voice: of: Bob. (repre-6240 KHz and listen for the tions, that may have provided only listed are small fly-by-right opera-Subgenius") Many of the stations Man (a sort of Dr. Gene Scott of FCC last November: The Crooked Node International, Fladio Comedy Redio Garbanzo, Radio Lymph radio over the air" and listened to caught WEIX, where we ax your drum beat (no faoling) On Clandestine, CBOR (busted by the Club International Radio Erie: Other stations included are or new unlicensed voices from Fix-It Bob and Fix-It Bill from Lake September 10 you could have sounds of a hawling wolf over a

ping (1\$ US; \$2 Foreign). Geneva, WI 53147, \$6 plus ship Publications, P.O. Box 493 Lake The 1989 Pirate Radio

Spanish, English, French, and cryptic sequences of numbers around the world. Tune in to hear extensive list of frequencies of the being read aloud in German mysterious numbers stations from Log by Havana Moon. This is an Numeros: The Numbers Stations Also available from Tiare Los

The New "TAP"

by Emmanuel Goldstein

sage is unfolding. people that TAP is defunct and that whatever became of TAP, the tele-Now it appears another chapter in the we had nothing at all to do with them. we finally seem to have convinced the Yippies in 1971. After tive years, phone/anarchy newsletter founded by 2500, people have been asking us Ever since we began printing

function attempt to cash in on the on liter It's up to the hackers of the to have a new staff and a new lease actually put out an issue. They claim out of Kentucky, an organization has the termer Yippie publication. Now, dozen attempts to take over or restart TAP reborn or just another opporworld to decide whether this is really emerged that calls itself TAP and has 1984, there have been at least a Since TAP stopped publishing in

explaining Ottnot. The article takes up explanation on how to make an the "home anarchist"), and an article cauple of news clippings, a brief magazine. Two sheets of paper about half of the issue. unstable explosive in three steps (for (unstrached) with the old TAP logo, a a format practically identical to the old A glarice at the first issue reveals

of? We'll know soon enough. simply pick up where the old one left came out. Can this new newsletter for has happened since TAP last it even reads like the old TAP. But a Yes, it looks like the old TAP, And

particularly in the way they use the lack of imagination in the new TAP, rest in peace. He complained of a ferred it had TAP been allowed to last editor, says he would have pre-Cheshire Catalyst, the old TAP's

> do something different." he said. old logos. "It's time to move on and

they want to. That's just the way it is that anybody can start it up again it has no exclusive right to TAP and を行ってなるのでは、その「AT」 Other hackers say that Cheshire

a disadvantage. actually be putting their newsletter at name of TAP, the publishers may pie of the new TAP. By taking on the about those people who lost money the new TAP appears to have been munity simply wouldn't be there being expressed in the hacker comto the old TAP? They're likely to pin tilied in using the same name? What involved in the old TAP; are they jussen a new name, a fot of the doubts the responsibility for this on the peo-Considering that nobody involved in But had the publishers simply tho

is a must-read for many hackers. regular articles, Phrack Workt News, boards all eyes the world. One of their ing them in a "package" to bulletin doing something different: collecting one that built a strong following by hacker newsletter called Phrack is er community for innovative newslethacker free and articles and distributters and magazines. An electronic There's plenty of room in the hack-

not take, a name for themselves. We being new and different. hape to see the new TAP succeed for that tread on new ground and enake, The best publications are the ones

PO Box 20254, Louisville, KY 40220. not widely distributed. To get a samissue #92 which was its last and was of the new TAP known as #92. 25 cent stamp. Their socress is TAP. ple of the new TAP, just send them a However, the old TAP also had an At press time, there was one issue

# tips on trashing

(continued from page 33)

smoke), a tin cup, and some beef hours before I start my planned side, I do not shower or shave 16 cap on my head. On the hygiene depending on what is handy at the cigarettes (even though I don't the backpack I carry a half pack of backpack to put my material in. In before I leave. I use a ratty torn activities. I do not comb my hair as a derelict looking for food, not a time. With this, my outlit is comjerky. I might also take some other phreak looking for information. more likely to be recognized only plete. That way, if I'm caught, I'm items to complete my disguise,

and hide the keys in a magnetic and conditions. It is not unusual for blocks from the scene, sometimes always park my car at least three lock key set stored under the car. my wallet underneath the seat. me to park six blocks away. I hide more depending on gaography When traveling to the target.

because lirst, I dressed for the through the teloo's garbage bins, browned apple in my backpack caught, I had taken a half caten, excuse. One time when I was for me to ramble off a convincing actually did get caught, it was easy would say if I got caught. When I part. Second, I practiced what times, I was told to beat it. I got of have been caught twice. Both showed him my "gain" from their When an employee caught me, In over two years of thrashing

> and told me to get on my way. ing for food. He was convinced. dumpster, and told him I was look-

cautions may seem like a bit information to be gained is infinite. career, and in no way do I wish to sive prosecutors. I have a college through smart cops and aggresby their own shortcomings - not phreaks have gotten into trouble observations, the majority of es, or feeling loo comfortable and their activities, relaxing their reflextheir triends, getting careless with gelling into trouble for bragging to heard countless tales of phreaks following them faithfully. But I have much. It does take some effort to thrash around, within reason. The jeopardize it. So, go out there and letting down their guard. In my ly valuable. Good luck! I realize that some of those pre-

Emmanuel Goldstein Editor-In-Chief

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growing ananymous banch Violence, Mike Yuhas, and the Red Kalght, Sill from RNOC Paul Estey, Mr. French. Bavid Rudermon, Lou Scomton The Click, the Infaet. Writers: Eric Codey, John Dicke

## (continued from page 3)

KEMEMBER

who loved toys. friends compared him to a little kid for life's little pleasures and his burner. He had a terrific enthusiaser. a sharp mind and a great sense of On the personal level, Abbie had

the some quite differently if he hadn't what we do today would probably turned the world on its side; a lot of been around. when you consider how Abbie tion. That upset him gaite a bit, But seemed to reach the younger genera-We're sorry he wever really

ties, say hello to Abbie. Ho'll be right as you realize the endless possibiliyou feel that little rush of excitament with a computer somewhere and So the next time you're playing

1989 at the age of 22. articulate writers died un June 4, 2600's most knowledgeable and On yet another sad note, one of

Shadow 2600. board systems, David was known as recently, as Dan Foloy. On bulletin pages as The Shadow and, most David Flory was known in these

beaedithed from that. quest to learn and explore. We all an extension of his ever-present many ways, The Private Sector was cal discussion and explain things so that everyone could understand. In the person to take charge of a techni-BBS, Shadow 2600 would always be In the days of The Private Sector

David was shocked along with

role in publicizing the action and knowledge. setting up a support network the never lost sight of our ideals: in July of 1985. He played a major breedem of speech and the quest for Sector was select by the authorities the rest of us when The Private Throughout this rather trying alime,

spiritaliye. enjoyed the work he did for 2600. gained much from him and he loss won't disapprair soon. We Like Abbie, we intend to keep his Our sadness over David Flory's

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# 2600 Letters

(continued from page 31)

you have. Hacking involves using other computers over the phone trues. So you can be a hacker on a dumb terminal that has no computer attached. Commodore 64's are popular because they're cheap. It says nothing of the ability of the person behind the keyboard. (Incidentally, we like to say that EVERY computer is a kid's computer!)

12) It's big. Believe us. So big that sometimes it's frightening.

13) Eavesdropping is simple if you have access to the frequencies. That is not difficult at all: Making free calls on cellular is probably a tot more trouble than it's worth. If any readers have experiences here, let us know.

14) Sure, But you'd have to find one of those old-fashtoned phones that don't give you a dial-tone until you put money in. The trick works on the newer phones in a slightly different way and is detailed in our Spring issue.

15) It sounds tike you already have a program that just needs some debugging. We suggest you get a manual or a programmer and figure out what's wrong. By the way, any program that works on an HM PC should work on a clone -- that's why they're called

clones. Every XII and every AII is considered a PC, in addition. 16) Make some friends in the field and you will see.

There, that wasn't so bad, was it? If anyone out there would like to send us a letter, address it to: 2600 Letters, PO Box 99, Middle Island, NY 11953.

201 (continued from page 21)

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